

TEACHER'S ACTIVITY REPORT 2018 - 2019.

FACULTY: Science

DEPARTMENT Mathematics

IQAC ACTIVITY No: SVC/2018-19/MATH/SS/1

NAME OF THE ACTIVITY: Academic Lecture			
DATE: 29 October 2018	FACULTY	DEPARTMENT	COORDINATOR NAME
	Science	Mathematics	Dr Swarn Singh, Dr Rajni Arora
TIME 10:00 am	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor
	Seminar hall	21	Indoor
SUPPORT/ASSISTANCE:	Sri Venkateswara College,DU		

BRIEF INFORMATION ABOUT THE ACTIVITY (**CRITERION NO. - III AND VII**):

TOPIC/SUBJECT OF THE ACTIVITY	SCUDEM-III (Student Competition Using Differential Equations Modelling)
OBJECTIVES	Offer students modelling opportunities to practice modelling skills and permit focus on modelling approach and mathematics
METHODOLOGY	3 modelling problems were given to students with one week time to solve them.
OUTCOMES	The students took the challenge seriously worked in teams on these problems enthusiastically.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

Notice & Letters	Student list of participation	Activity report ✓	Photos ✓	Feedback form
Feedback analysis	News clip with details	Certificate	Any other	

IQAC Document No:	Criterion No:	Metric No:
Departmental file no:	IQAC file No	

NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)
Dr Swarn Singh, Dr Rajni Arora	Dr. Mainak Mukherjee	

For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		

Activity Report

This year, the department hosted second *Student Competition Using Differential Equations Modelling*, popularly known as SCUDEM in association with **SIMIODE** (Systemic Initiative for Modelling Investigations & Opportunities with Differential Equations) **USA**. This year it was SCUDEM-III challenge. This challenge is taken up by students from across the world. There are only 3 local sites in India where this competition was organised, one of which was Sri Venkateswara College. This challenge is for at the most three member teams of students. Each team was mentored by a teacher coach.

Objectives:

1. Offer students modelling opportunities in one area of mathematics, differential equations, to practice modelling skills and permit focus on modelling approach and mathematics.
2. Foster the value and applicability of differential equations.
3. Develop visual and verbal communication skills through written executive summary and oral presentation.
4. Bring faculty coaches together for Faculty Development to experience modelling activities and share ideas and activities from their own teaching in modelling with differential equations and other courses.
5. Get students to think about value in teaching with modelling and invite exceptional student efforts to submit a full write-up for peer-reviewed modelling scenario publication in SIMIODE.

Three problems were released on 19th October based on physical, social, and life sciences phenomenon.

Problem A: Conflict between Patrilineal Clans

Problem B: Swing and a hit

Problem C: Snakes in the long run

8 Teams comprising of students from Mathematics, Physics, Economics department participated in the competition.

Team 1- Aarushi Singh, Aanavi Sharma, Tanya Gupta (BSc(H) Maths II Yr); Mentor: Ms Rajni Arora

Team 2- Anirudh Bhashyam, Naman Sharma, Vikas Rathaur (BSc(H) Maths II Yr); Mentor: Mr Amit Kumar

Team 3- Tanushree Chowdhury, Aditi Rawat, Lakshita Sangwan (BSc(H) Physics II Yr); Mentor: Ms. Rajni Arora

Team 4- Riya Baruah, Sejal Chandna, Shriya Agarwal (BSc(H) Physics II Yr); Mentor: Dr K Singh

Team 5- Tanujaya Chakravorty, Muskan Gera, Kushi Kataria (BSc(H) Maths II Yr); Mentor: Dr Garima Virmani

Team 6- Subhajit Biswas; Mudit Garg (BSc(H) Maths II Yr); Mentor: Mr Sudhakar Yadav

Team 7- Rochi Sharma (BSc(H) Physics II Yr); Mentor: Mr. Sandeep Bhatt

Team 8- Ashutosh Mishra, Vilok, Jitendra Taori (BSc(H) Economics III Yr); Mentor: Mr Krishnakumar Sulochana Panicker

Each team selected one modelling problem of their choice and worked on it for a week developing approaches and solutions and preparing an Executive summary and 10 minute presentation. On challenge day, 29th October, 2018, first of all the event coordinator Dr Swarn Singh conducted a small faculty enhancement workshop by engaging the present faculty members in a fun activity.

Then teams submitted their executive summary for judging by coaches and presented their findings in 10 minute long presentation. The students enjoyed working on these problems and presented their work very enthusiastically.





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(University of Delhi)

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Shri D. Venkat Ramana
A.O(I/C)

This is to certify that the Activity report (Teacher/Department /Society/Association) has been submitted for documentation to IQAC, Sri Venkateswara College, University of Delhi.

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